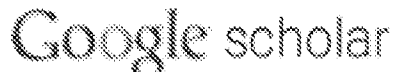


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Future directions for adaptive **mesh** refinement in ASCI and other LLNL simulation projects

RD Hornung - 1997 - [osti.gov](#)

... uniform **geometry** and regular connectivity, as illustrated in ... The research into **adaptive mesh** refinement simulation ... a form of spatial **mesh** refinement directly ...

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Computer-aided bone distraction

N Krause, RW Mendicino, K Shimada, L Weiss, T ... - US Patent App. 10/636,052, 2003 - [Google Patents](#)

... Free-Form *~ Deformation Parameters With **Adaptive** Mdel^Refinement ... representing a standard parametric **geometry** and topology ... The **template** polygonal **mesh** is then ...

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A parallel object-oriented application for 3d electromagnetism- ► [inria.fr](#) (pdf)

L Baduel, F Baude, D Caromel, C Delbe, N Gama, SE ... - Parallel and Distributed Processing Symposium, 2004.

..., 2004 - [ieeexplore.ieee.org](#)

... In particular, it can use curvilinear grids, **adaptive mesh** refinement, and the composite ... (vertices and element connectivity) Tetrahedral **mesh** ... **Geometry** ...

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Time Critical Isosurface Refinement and Smoothing

CL Bajaj, V Pascucci - IEEE Symposium on Volume Visualization, 2000. VV 2000, 2000 - [ieeexplore.ieee.org](#)

... pendently of the intrinsic/embedding dimension of the **geometric** object ... **Mesh** Refinement ... have been designed in the meshing community for the **adaptive** refinement of ...

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M Chen, C Correa, S Islam, MW Jones, PY Shen, D ... - Computer Graphics Forum, 2007 - [cs.swan.ac.uk](#)

... a constructive **model** (eg, parameters of a **primitive** function in ... are more than hundreds of **geometric** elements in ... to associate a deformable polygonal **mesh** with a ...

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AF Frangi, WJ Niessen, MA Viergever - IEEE Transactions on **Medical** Imaging, 2001 - [tecn.upf.es](#)

... planning of surgical interventions, and for **mesh** generation for ... IEEE TRANSACTIONS ON **MEDICAL** IMAGING, VOL ... LV while keeping the intrinsic **geometrical** meaning of ...

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[BOOK] New advances in virtual humans: artificial intelligence environment

N Magnenat-Thalmann - 2008 - [books.google.com](#)

... Each segment is a **geometric primitive** connected by joints which have ... principle of the neural network allows **adaptive** error mini ... **MESH ANIMATED MESH FINAL MESH** Fig ...

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I Guskov, A Khodakovsky, P Schröder, W Sweldens - Proceedings of the eighteenth annual symposium on ..., 2002 - [eecs.umich.edu](#)

... operations (these typically happen near important **geometric** or topological ... until we reach the final **adaptive** remesh M ... be generated for this sub- **mesh**, with the ...

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Automated measurement of objects using deformable models

M Kaus, J Weese, S Lobregt - US Patent App. 10/521,254, 2003 - Google Patents
 ... "Shape constrained deform- able **models** for **3D** medical image ... sub-parts (eg surface elements of a **mesh** such as ... primitives (eg a **sphere** to the **femur** head) to ...

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VRML visualization in a surgery planning and diagnostics application

H Holten-Lund, M Hvidtfeldt, J Madsen, S Pedersen - Proceedings of the fifth symposium on Virtual reality ..., 2000 - portal.acm.org
 ... Rotor.set_fraction ROUTE Rotor.value_changed TO **Femur**.set_rotation ... The **3D** graphics renderer used by the VRML ... The renderer uses a **mesh** representation where the ...

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Efficient and Accurate Femur Reconstruction using Model-based Segmentation and Superquadric Shapes

R Cuypers, Z Tang, W Luther, J Pauli - Proceedings of the Fourth IASTED International Conference - actapress.com

... method was applied to a **3D** point set ... **model** was used to extract certain significant **femur** features from ... de- termined by the above-mentioned **mesh-model** fitting ap ...

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Rapid prototyping applications in medicine. Part 2: STL file generation and case studies

D Ma, F Lin, CK Chua - The International Journal of Advanced Manufacturing ..., 2001 - Springer
 ... gener- ated through the triangular **mesh** construction process ... **model** is obtained from **3D** reconstruction of ... An upper **femur model** derived from reconstructed NURBS ...

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Skeleton-based modeling operations on solids

DW Storti, GM Turkiyyah, MA Ganter, CT Lim, DM ... - Proceedings of the fourth ACM symposium on Solid modeling ..., 1997 - portal.acm.org

... resen- tation of **3D** shapes may be described in three steps ... of detail while still showing the gross shape of the **femur**. ... 3 Hexahedral Finite Element **Mesh** Generation ...

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BJ Fregly - Citeseer

... base SIMM bone files that represent the **3D** bone and muscle surfaces as polygon **meshes** ... anatomical landmarks used for establishing the **femur** reference frame ...

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Implicit reconstruction of solids from cloud point sets

CT Lim, GM Turkiyyah, MA Ganter, DW Storti - Proceedings of the third ACM symposium on Solid modeling and ..., 1995 - portal.acm.org

... of several sample data sets, including a molar and a **femur**. ... exist for manipulating polygonal **meshes** in real-time ... a scheme for the reconstruction of **3D** data from ...

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AP Mangan, RT Whitaker - IEEE Transactions on Visualization and Computer Graphics, 1999 - scilib.kiev.ua

... data with the goal of constructing CAD **models**. ... and matching of any type of underlying **geometric primitive**. ... For **3D mesh** segmentation, we have chosen the latter ...

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[Recent advances in compression of 3D meshes-](#) ► [inria.fr](#) [pdf]

P Alliez, C Gotsman - Advances in Multiresolution for Geometric Modelling, 2005 - Springer

... Techniques which remesh the **model** before compression. ... Recent Advances in Compression of **3D Meshes** 5 ... why much of the work in the area of **mesh** compression prior ...

Cited by 105 - Related articles - Web Search - All 24 versions

[A texture-mapping approach for the compression of colored 3D triangulations](#)

M Soucy, G Godin, M Rioux - The Visual Computer, 1996 - Springer

... to be applied onto the compact triangulated **mesh**. ... texture filtering, independently of the **3D** shape compression ... order to define a usable texture- mapped **model**. ...

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[Deformable models with parameter functions: application to heart-wall modeling-](#) ► [upenn.edu](#)

[PDF]

J Park, D Metaxas, A Young - 1994 IEEE Computer Society Conference on Computer Vision and ..., 1994 - [ieeexplore.ieee.org](#)

... 5] developed a spring-mass, adaptive-size **mesh model**, Cohen and ... of points on the **model** relative to the **model** frame ... e can represent either a set of **3D** points in ...

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[Deformable m-reps for 3d medical image segmentation-](#) ► [unc.edu](#) [pdf]

SM Pizer, PT Fletcher, S Joshi, A Thall, JZ Chen, ... - International Journal of Computer Vision, 2003 - Springer

... a multiscale medial means for modeling and rendering **3D** solid geometry ... medial atoms, which is interpolated from the **model** formed by a net, ie, a **mesh** or chain ...

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[PDF] ► [An efficient volumetric method for building closed triangular meshes from 3-d image and point data](#)

G Roth, E Wibowoo - Graphics Interface, 1997 - [informatik.uni-bonn.de](#)

... A volumetric method for building complex **models** from range ... cubes: a high resolution **3d** surface reconstruction ... McDonald, and W. Stuetzle, **Mesh** optimization," in ...

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[Volumetric deformable models with parameter functions: A new approach to the 3D motion analysis of ...](#)

J Park, D Metaxas, L Axel - Computer Vision, 1995. Proceedings., Fifth International ..., 1995 - [ieeexplore.ieee.org](#)

... relative to an inertial frame of reference @ in **3D** space are ... of points on the **model** relative to the **model** frame ... where e is a **geometric primitive** $e(u; a_0(u), \cdot^*(U \dots$

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Partitioning 3D Surface Meshes Using ... We call the problem of **partitioning a 3D surface mesh** into meaningful, connected pieces the **mesh** segmentation problem. ...

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Spectral compression of mesh geometry- ►psu.edu [PDF]

Z Karni, C Gotsman - Proceedings of the 27th annual conference on Computer ..., 2000 - portal.acm.org

... which better captures the geometry of the **mesh surface**. ... be necessary to include this **partition** information as ... to perform lossy compression of **3D mesh** data is ...

Cited by 296 - Related articles - Web Search - All 24 versions

Segmentation of 3D meshes through spectral clustering- ►sfu.ca [PDF]

R Liu, H Zhang - Computer Graphics and Applications, 2004. PG 2004. ..., 2004 - ieeexplore.ieee.org

... of geodesic and an- gular distance over the **mesh surface**. ... use of graph min-cut to **partition** the fuzzy ... on applying spectral clustering to **3D mesh** segmen- tation ...

Cited by 65 - Related articles - Web Search - All 14 versions

Bounded-distortion piecewise mesh parameterization- ►psu.edu [PDF]

O Sorkine, D Cohen-Or, R Goldenthal, D Lischinski - IEEE Visualization, 2002. VIS 2002, 2002 - ieeexplore.ieee.org

... and Realism—Color, shading, shadowing and texture; Keywords: atlas, **mesh partitioning**, parameterization, **surface flat-** tening, texture mapping, **3D painting** ...

Cited by 107 - Related articles - Web Search - All 19 versions

Intelligent mesh scissoring using 3d snakes- ►ajou.ac.kr [PDF]

Y Lee, S Lee, A Shamir, D Cohen-Or, HP Seidel - Computer Graphics and Applications, 2004. PG 2004. ..., 2004 - ieeexplore.ieee.org

... **Mesh partitioning** and parts extraction have become key ingredients for ... around a specific part of the **mesh**, and this ... the initial position of a **3D** geometric snake ...

Cited by 41 - Related articles - Web Search - All 8 versions

Hierarchical mesh decomposition using fuzzy clustering and cuts- ►idc.ac.il [PDF]

S Katz, A Tal - ACM Transactions on Graphics (TOG), 2003 - portal.acm.org

... In **3D** shape re- trieval, a decomposition graph serves as ... distances to all pairs of faces in the **mesh**. ... For instance, we wish to **partition** the objects in Figure ...

Cited by 248 - Related articles - Web Search - BL Direct - All 13 versions

[PDF] ► **High-resolution random mesh algorithms for creating a probabilistic 3D surface atlas of the human ...**

PM Thompson, C Schwartz, AW Toga - NeuroImage, 1996 - Citeseer

... brain, we modeled the major sulci in **3D** as deep ... were modeled using a multiresolution parametric **mesh** approach ... into the brain to form a natural **partition** of its ...

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Texture mapping progressive meshes- ►stevens.edu [PDF]

PV Sander, J Snyder, SJ Gortler, H Hoppe - Proceedings of the 28th annual conference on Computer ..., 2001 - portal.acm.org

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Para-graph: graph-based parameterization of triangle meshes with arbitrary genus- ► [cnr.it](#)

[PDF]

G Patane, M Spagnuolo, B Falcidieno - Computer Graphics Forum, 2004 - interscience.wiley.com

... it simply corresponds to the **part** of the ... factors which mainly differentiate this **decomposition** from simplification ... with respect to the geometry of the **3D mesh**. ...

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[PDF] ► Computing parametric geon descriptions of 3D multi-part objects

K Wu - 1996 - cim.mcgill.ca

... APPENDIX D. **Part Decomposition** : : : : ... 1.1 **Part**-based description of a **3D** object ... 6.15 Results of **part** segmentation ...

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Domain connected graph: the skeleton of a closed 3D shape for animation- ► [ntu.edu.tw](#) [PDF]

FC Wu, WC Ma, RH Liang, BY Chen, M Ouhyoung - The Visual Computer, 2006 - Springer

... 2.3 **Decomposition**-based method ... measure shape variation, in order to identify a meaningful **part**. ... procedure detects where the skeletal points of a **3D** model can ...

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An evolving system for simulating clothes on virtual actors

P Volino, NM Thalmann, S Jianhua, D Thalmann - IEEE Computer Graphics and Applications, 1996 - ieeexplore.ieee.org

... We achieved efficient computation by **decomposing** the body into ... **surface** to be input by either **3D** digitizing or ... Every **part** is composed of mass blocks, such as ...

Cited by 84 - Related articles - Web Search - BL Direct - All 7 versions

[PDF] ► The generation of hexahedral meshes for assembly geometry: survey and progress

TJ Tautges - Int. J. Numer. Meth. Engng, 2001 - Citeseer

... solution step, which is ecient in **part** because it ... a **surface mesh** is extruded into **3D** elements ... cent of the volumes resulting from geometry **decomposition**, and the ...

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Feature based hex meshing methodology: feature recognition and volume decomposition-

► [wisc.edu](#) [PDF]

Y Lu, R Gadh, TJ Tautges - Computer-Aided Design, 2001 - Elsevier

... In **3D**, the problem of **decomposition** and meshing becomes ... 9(a), the lower portion of the **part** can be ... a good quality **mesh**; however, this **decomposition** leaves an ...

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Segmentation of 3D Objects Using Pulse-Coupled Oscillator Networks- ► [uci.edu](#) [PDF]

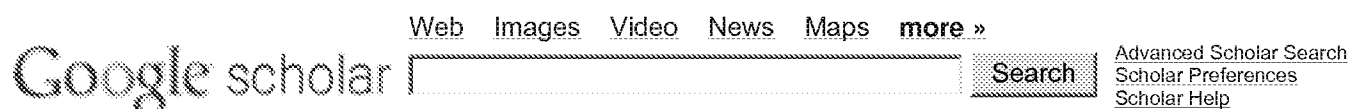
E Ceccarelli, A Del Bimbo, P Pala - IEEE International Conference on Multimedia and Expo, 2005. ..., 2005 - ieeexplore.ieee.org

... into syn-chronized groups reflects a **decomposition** of the original **mesh** into homogeneous **parts**. ... objects, represented in the form of **3D meshes**; finally, in ...

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[PDF] ► Progressive iso-surface extraction from hierarchical 3d meshes

R Grosso, T Ertl - Computer Graphics Forum, 1998 - vis.uni-stuttgart.de



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A survey of methods for recovering quadrics in triangle meshes- ► [loria.fr](#) [PDF]

S Petitjean - ACM Computing Surveys, 2002 - [portal.acm.org](#)

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to ...

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Whole-body modelling of people from multiview images to populate virtual worlds

A Hilton, D Beresford, T Gentils, R Smith, W Sun, ... - The Visual Computer, 2000 - Springer

In this paper a new technique is intro- duced for automatically building recognis- able, moving 3D models of individual peo- ple. A set of multiview colour images of a person is captured from the front, sides and back by one ...

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[PDF] ► **Partitioning range images using curvature and scale**

A Lejeune, FP Ferrie - IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND ..., 1993 - [eprints.kfupm.edu.sa](#)

Abstract We present a method for partitioning a set of surface estimates obtained with a laser range nding system into subsets corresponding to parts of an object. Our strategy uses two complementary representations for ...

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Part-based 3D descriptions of complex objects from a single image

M Zerroug, R Nevatia - IEEE Transactions on Pattern Analysis and Machine ..., 1999 - [ieeexplore.ieee.org](#)

Abstract Volumetric, 3D, part-based descriptions of complex objects in a scene can be highly beneficial for many tasks such as generic object recognition, navigation, and manipulation. However, it has been difficult to derive such ...

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[CITATION] **Popup People: Capturing human models to populate virtual worlds**

A Hilton, T Gentils - Proc. SIGGRAPH, 1998

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Active object recognition: Looking for differences- ► [northwestern.edu](#) [PDF]

FG Callari, FP Ferrie - International Journal of Computer Vision, 2001 - Springer

Abstract. This paper introduces an information-based methodology for view selection that actively exploits prior knowledge about the objects to be found in a scene. The methodology is used to implement an active recognition ...

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On the sequential determination of model misfit- ► [psu.edu](#) [PDF]

P Whaitte, FP Ferrie - IEEE Transactions on Pattern Analysis and Machine ..., 1997 - [ieeexplore.ieee.org](#)

Abstract—Many strategies in computer vision assume the existence of general purpose models that can be used to characterize a scene or environment at various levels of abstraction. The usual assumptions are that a selected ...

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